

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
 OIL & GAS CONSERVATION DIVISION
 WELL COMPLETION FORM
 ACO-1 WELL HISTORY
 DESCRIPTION OF WELL AND LEASE

Operator: License # 5952

Name: Amoco Production Company

Address P.O. Box 800, Rm. 1833

City/State/Zip Denver, CO 80201

Purchaser: _____

Operator Contact Person: J. A. Victor

Phone (303) 830-4009

Contractor: Name: Cheyenne Drilling

Licenses: 5382

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.
 Gas SZ Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If GAO: old well info as follows:

Operator: N/A

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

8/10/90 8/13/90 10/25/90

Spud Date Date Reached TD Completion Date

API NO. 15- 093-21080-6000

County Kearny

NW SE NE Sec. 23 Twp. 24 Rge. 37 East West

3930 Ft. North from Southeast Corner of Section

1250 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

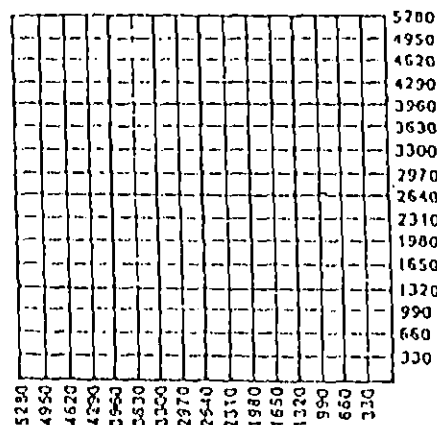
Lease Name Molitoris G.U. Well # 3HI

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3216' KB 3228'

Total Depth 2750' PBID _____



Amount of Surface Pipe Set and Cemented at 691 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ SX cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Ch Burton

Title SR. Admin. Analyst Date 12/7/90

Subscribed and sworn to before me this 7th day of December 19 90.

Notary Public Julie A Victor

Date Commission Expires 1/7/94

12-14-90

RECEIVED STATE CORPORATION COMMISSION CONFIDENTIALITY ATTACHED

C Wireline Log Received

C Drillers Timelog Received

DEC 14 1990

Distribution

KCC SWD/Rep HGPA

KGS Plug Other

(Specify)

SIDE TWO

Operator Name Amoco Production Company Lease Name Molitoris G.U. Well # 3HI
 Sec. 23 Twp. 24 Rge. 37 East County Kearny
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample Name Top Bottom Chase 2440' 2750'
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24#	691'	35/65 POZ-C Class H	190	
Production	7-7/8"	5-1/2"	15.5#	2750'	35/65 POZ-C Class C	700	CC
						100	CC
PERFORATION RECORD Shots Per Foot Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
				Frac with 199,402 gals. gelling agent and 731,560# 8/16 Brady sand			
				2445-2750'			
TUBING RECORD Size Set At Packer At				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
None							
Date of First Production SI		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf 1500	Water Bbls.	Gas-Oil Ratio	Gravity	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Conningled Other (Specify) slotted casing

Production Interval: 2445-2750'

K C C

AUG 15 1990

DRILLERS LOG

AMOCO PRODUCTION COMPANY
MOLITORIS G.U. NO. 3 HI
SECTION 23-T24S-R37W
KEARNY COUNTY, KANSAS

COMMENCED: 08-10-90
COMPLETED: 08-13-90

SURFACE CASING: 682' OF 8 5/8"
CMTD W/200 SX 35/65 POZ "C", 6% D-20,
3% SI, 1/4#/SX D-29; TAILED IN W/
150 SX "C", 3% SI, 1/4#/SX D-29

FORMATION	DEPTH
SURFACE HOLE	0- 691
RED BED	691-1280
GLORIETTA SAND	1280-1538
SHALE & LIME	1538-2750 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

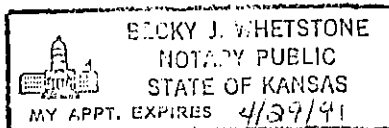
CHEYENNE DRILLING, INC.

A. J. Jacques

A. J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 13TH DAY OF AUGUST, 1990.



Becky J Whetstone

BECKY J. WHETSTONE, NOTARY PUBLIC

150 11 555
8-16-1990

DOWELL SCHLUMBERGER INCORPORATED
 P.O. BOX 4378 HOUSTON, TEXAS 77210

ORIGINAL 15-093-21080-0000 8-18

OILFIELD SERVICES
 INDUSTRIAL SERVICES

DSI SERVICE ORDER RECEIPT AND INVOICE NO. **2931**
 CUSTOMER NUMBER **Amoco**
 CUSTOMER P.O. NUMBER
 TYPE SERVICE CODE
 BUSINESS CODES

CUSTOMER'S NAME **Amoco**
 ADDRESS
 CITY, STATE AND ZIP CODE

WORKOVER NEW WELL OTHER
 API OR IC NUMBER
 ARRIVE LOCATION **8** MO. **12** DAY **90** TIME **2130**

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. in accordance with the terms and conditions as printed on the reverse side of this form.

SERVICE ORDER RECEIPT
 I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

JOB COMPLETION MO. **8** DAY **90** TIME
 SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE **Kansas** CODE **Kearney** COUNTY/PARISH CODE CITY

WELL NAME AND NUMBER / JOB SITE **Molitors B** LOCATION AND POOL / PLANT ADDRESS **Houston** SHIPPED VIA **DS**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
049102-000	Delivery Chg	IR	1	504.00	504.00
049100-000	Service Chg	FS	413	1.08	446.04
059200-002	Milage	mi	35	2.40	84.00
040003-000	D903 Class C cmt	CS	247	7.30	1802.10
045008-000	D 55 discpoz-35	CS	133	2.30	305.90
045014-050	D 80 Cell	lbs	1982	0.13	257.86
044003-005	D 89 Cellphone flake	lbs	95	1.37	130.15
052011-054	5/16 CENTRALIZERS	EA	5	54.00	270.00
057449-001	THREAD LK	EA	1	22.00	22.00

ORDER RECEIPT

1387.03

75
 3748.88
 Field Est. # 3530.98
 SUB TOTAL 2361.72

REMARKS: **Thanks for using D.S.**
 STATE % TAX ON \$ 1710.27 72.68
 COUNTY % TAX ON \$ 17.10
 CITY % TAX ON \$
 SIGNATURE OF DSI REPRESENTATIVE **Greg Black** TOTAL \$ 2451.50

CEMENTING SERVICE REPORT



DOWELL-SCHLUMBERGER INCORPORATED

15-093-21080-0000

DS-496 PRINTED IN U.S.A.

TREATMENT NUMBER 2930 DATE 8/12/90
 STAGE DS DISTRICT 1243505 KS

WELL NAME AND NO. **Molitors # B**
 LOCATION (LEGAL) **Chase**
 FIELD-POOL **Hugoton**
 FORMATION **Chase**
 COUNTY/PARISH **Kearny**
 STATE **Ks**
 API. NO.
 NAME **Cheyenne Orlg**
 AND
 ADDRESS
 ZIP CODE

RIG NAME: **Cheyenne #1**
 WELL DATA: BOTTOM TOP
 BIT SIZE **7 7/8** CSG/Liner Size **5 1/2**
 TOTAL DEPTH **15.5** WEIGHT
 ROT CABLE FOOTAGE **2445**
 MUD TYPE GRADE
 BHST BHCT THREAD **8 3/4**
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S)
 MUD VISC. Disp. Capacity **8445** TOTAL **88.0**
 NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS
Provide materials and services
To safely cement 5 1/2 production strings
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE **1595** PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT **1000** PSI BUMP PLUG TO **1200** PSI
 ROTATE **—** RPM RECIPROCATE **—** FT No. of Centralizers **5**

Head & Plugs TGB D.P. SQUEEZE JOB
 Double SIZE TOOL TYPE
 Single WEIGHT DEPTH
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knockoff THREAD TUBING VOLUME E
 TOP OR NEW USED CASING VOL. BELOW TOOL E
 BOT OR DEPTH TOTAL F
 ANNUAL VOLUME E

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TGB OR D.P.	CASING	INCREMENT	CUM	TIME: 2200	DATE: 8/12/90	TIME: 2130	DATE: 8/12/90	TIME:	DATE: 8/12/90	
03:56	2090		1	-	1	1.0	8.34	SERVICE LOG DETAIL			
04:01		20	10	-	5.4	1.0	8.34	PRE-JOB SAFETY MEETING DSI test			
04:11		230	262	-	6.9	Cmt	12.2	1100 Ahead			
04:50		100	24	-	5.7	Cmt	11.9	Start Lead Cmt.			
04:55								Start Tail Cmt			
04:57		190	582	-	5.7	1.0	8.34	Shut Down Dripples			
05:07		460			2.0	1.0	8.34	Start Wga			
05:16		1190			1.1	1.0	8.34	Lower pump Rt.			
05:18		0	0	0	0	0	0	Bump plug			
05:18								Release psi			
								End Job			

REMARKS **Circulated 61 SKS Cmt to Surface**

SYSTEM CODE	NO OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			CLASS	ADDITION	BBLs	DE
1	700	2.1	35/65	25% C + 6% (20) + 1/4 #/sk (209)	261.8	1
2	100	1.32	CLASS C	+ 1/4 #/sk Cellaphan (209)	23.5	1
3						
4						
5						
6						

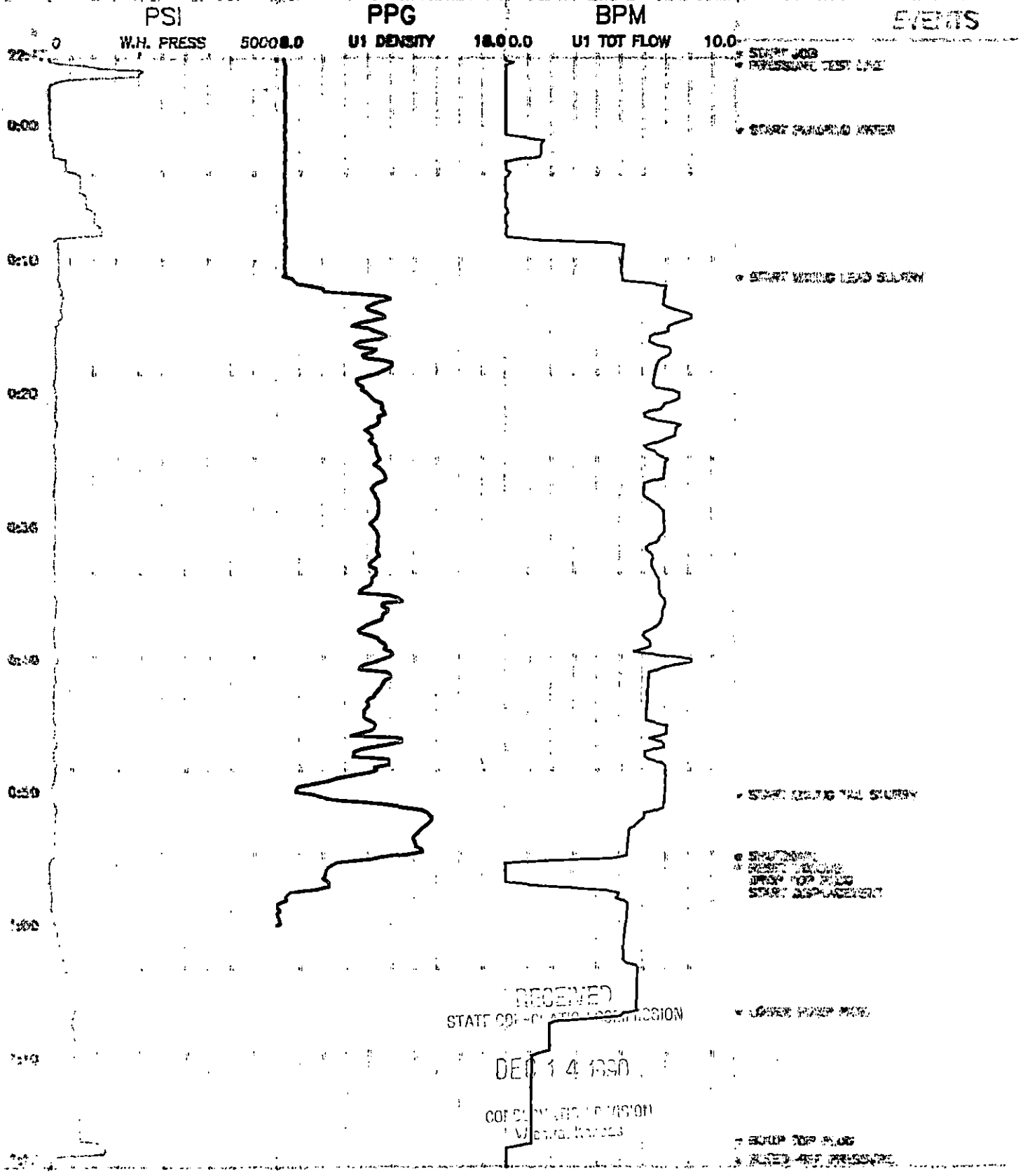
BREAKDOWN FLUID TYPE
 HESITATION SO RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO **22**
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT
 Washed Thru Parts YES NO TO FT MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS TO CUSTOMER REPRESENTATIVE DS SUPERVISOR **Area Black**

ORIGINAL PACR PLOT



CHEYENNE DRUG
WOLTERS 9
CHEYENNE ?
HUGGON

0312
CMT 15 + 1/2
2930
8/13/90



RECEIVED
STATE OPERATING DIVISION

DEC 14 1990

OPERATING DIVISION
MONTANA

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

ORIGINAL

ORIGINAL

15.093-21080-0000 8-22

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER RECEIPT AND INVOICE NO.

DSI SERVICE LOCATION NAME AND NUMBER

0312-2980

CUSTOMER NUMBER CUSTOMER P.O. NUMBER

TYPE SERVICE CODE 171 BUSINESS CODES

CUSTOMER'S NAME: *Amoco*
ADDRESS
CITY, STATE AND ZIP CODE

WORKOVER W
NEW WELL N
OTHER

IMPORTANT SEE OTHER SIDE FOR TERMS & CONDITIONS
ARRIVE LOCATION MO. DAY YR. TIME

SERVICE ORDER RECEIPT
I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

JOB COMPLETION MO. DAY YR. TIME
8 10 90

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE *Ks* CODE COUNTY / PARISH *Kearney* CODE CITY

WELL NAME AND NUMBER / JOB SITE *Molitor's G.U. 3 HI* LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
56015-085			1	70.00	70.00
57499-001			1	22.00	22.00
				STATE OF KANSAS COMMISSION	
				DEC 14 1990	12-14-1990
				SUB TOTAL	61.64

<30.36->

92.00

LICENSE/REIMBURSEMENT FEE

REMARKS: 33%

STATE % TAX ON \$ 61.64 2.61
COUNTY % TAX ON \$ 1.61
CITY % TAX ON \$
SIGNATURE OF DSI REPRESENTATIVE TOTAL \$ 64.86

DS-48c PRINTED IN U.S.A.

WELL NAME AND NO.: **Molitor's GU #312 Ser 23-24-37e**
 LOCATION (LEGAL): **Chase**
 FIELD-POOL: **Hugoton**
 COUNTY/PARISH: **Kearny**
 STATE: **Ks.**
 API. NO.:
 NAME: **Cheyenne Drilling**
 ADDRESS:
 ZIP CODE:

REG. NAME: **Cheyenne #1**
 WELL DATA:
 BIT SIZE: **2 7/8** CSGL: **8 5/8**
 TOTAL GALL: **647** WEIGHT: **24**
 MUD TYPE: **GRAB**
 MUD DENSITY: **12.4**
 MUD VISC.: **41.2**

SPECIAL INSTRUCTIONS:
Cmt. 8 5/8 casing

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: **284** PSI CASING WEIGHT - SURFACE AREA (3.14 x R²):
 PRESSURE LIMIT: **120** PSI BUMP PLUG TO: **120** PSI
 ROTATE: **2** RPM RECIPROCATATE: **2** FT No. of Centralizers:

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float	TYPE:	6 5/8 battle plate	DEPTH:	647
SHOE	TYPE:		DEPTH:	691

Head & Plugs: TBG D.P. SQUEEZE JOB
 Double Single Swage Knockoff
 Double Single Swage Knockoff

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION			LEFT LOCATION		
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400													
2326		100				8-10-90	1230	8-10-90	1230	8-10-90	0100	8-11-90	
2334		100	10				40	H2O					
2334		150	71				60	cmt. 12.4					
2345		100	32				40	cmt. 15.4					
2351		30											
2352		70	41.2				5	H2O					
2355		80		17			5	H2O					
2357		100		26			2	H2O					
0005		120		42			2	H2O					
0006													
		140											
		160											
		260											
		350											

PRE-JOB SAFETY MEETING: **PSI Test**
start water ahead
start lead cement
start tail cement
shut down - drop top plug
start displacement
cement to surface
lower rate
bump top plug
check float

140 lead cmt. 6 bpm
 160 tail cmt. 4 bpm
 260 before bumping plug
 350 displacement - 3 bpm

REMARKS:

SYSTEM CODE	NO OF SACKS	YIELD CU FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY		
1	190	2.1	65 c			71	12.4	
2			35%oz + 6% D2O + 3% cacl2 + 1/4" D29					
3	150	1.18	class H + 3% cacl2 + 1/4" D29			32	15.6	
4								
5								
6								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO
 Cement Circulated To Surf. YES NO **24** Bbls

BREAKDOWN: PSI FINAL: **41.2** Bbls
 TYPE OF WELL: OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT

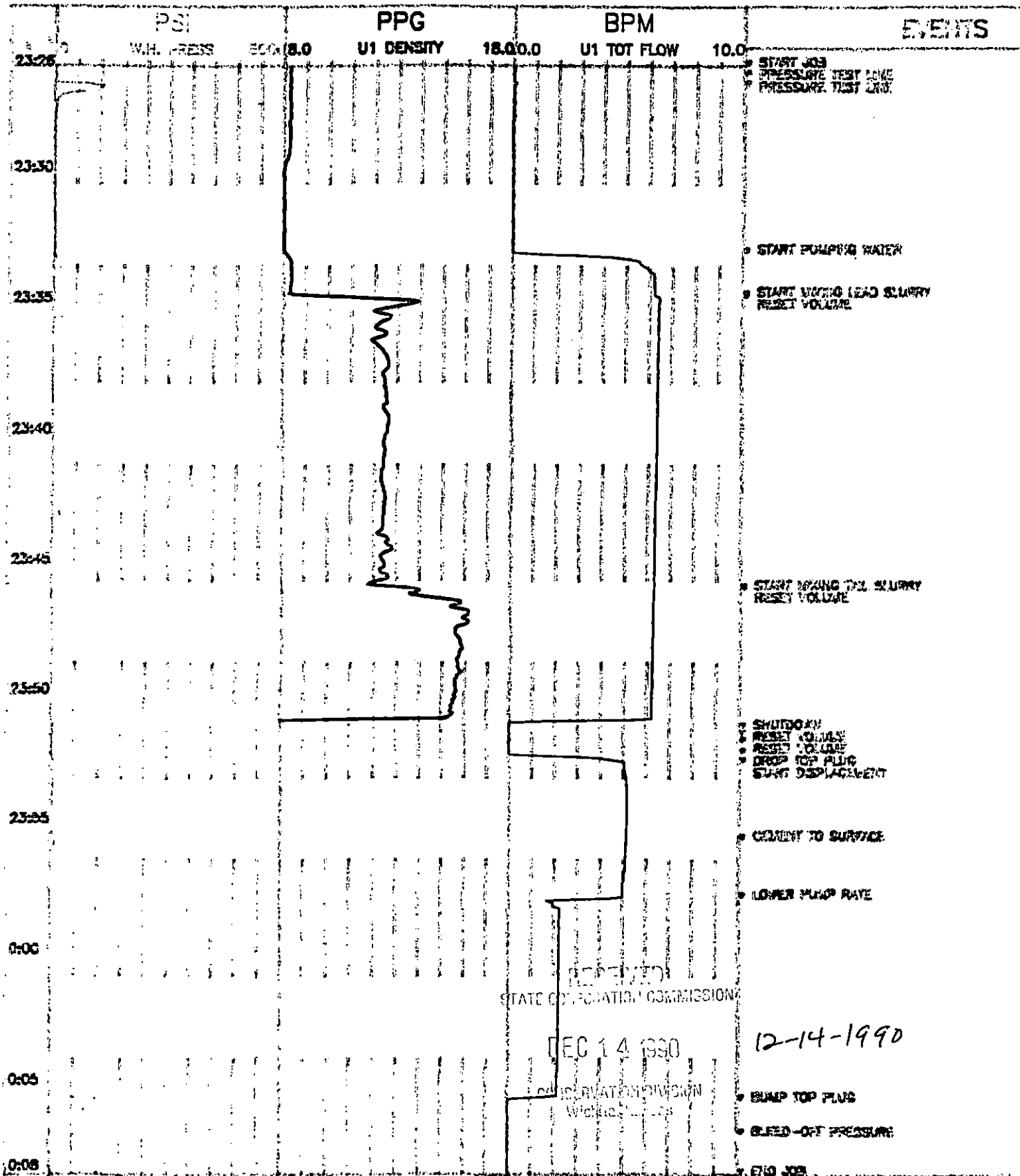
PERFORATIONS: CUSTOMER REPRESENTATIVE: **Don Ball** SUPERVISOR: **James Esquivel**

PACR PLOT ORIGINAL



CHEYENNE DRILLING
MOLITORIS GU 374
CHEYENNE DRILLING 1
FUGOTON

03-12
271
03-12-2823
02-10-90



STATE OF WYOMING COMMISSION

DEC 14 1990

WATER DIVISION

12-14-1990